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NL PT SE(72) Inventors:
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Mountain View, CA 94040 (US)(30) Priority: 30.11.1995 US 564955
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London WC1R 5LX (GB)(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
96940934.1 / 0 876 509(71) Applicant: Maxygen, Inc.
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(54) Methods for generating polynucleotides having desired characteristics by iterative selective and recombination

(57) The present invention relates to a method for evolving a polynucleotide encoding a plurality of genes, e.g. multiple genes forming a multicomponent pathway. The method involves shuffling of polynucleotides by conducting a polynucleotide amplification process on overlapping segments of a population of variants of a polynucleotide encoding a plurality of genes under conditions whereby one segment serves as a template for extension of another segment to generate a population of recombinant polynucleotides. This population is screened for a recombinant polynucleotide encoding a plurality of genes having a desired property.

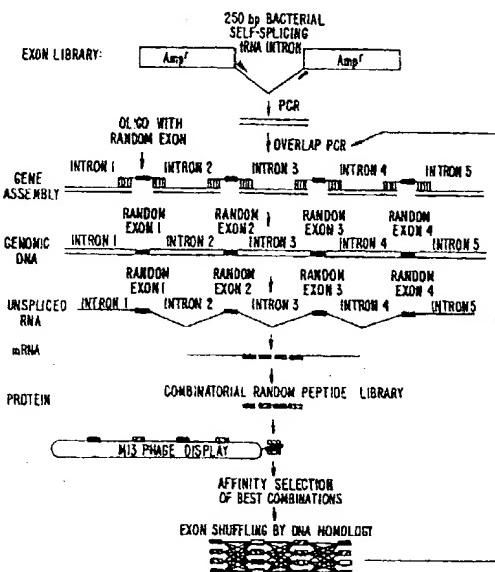


FIG. 20.



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